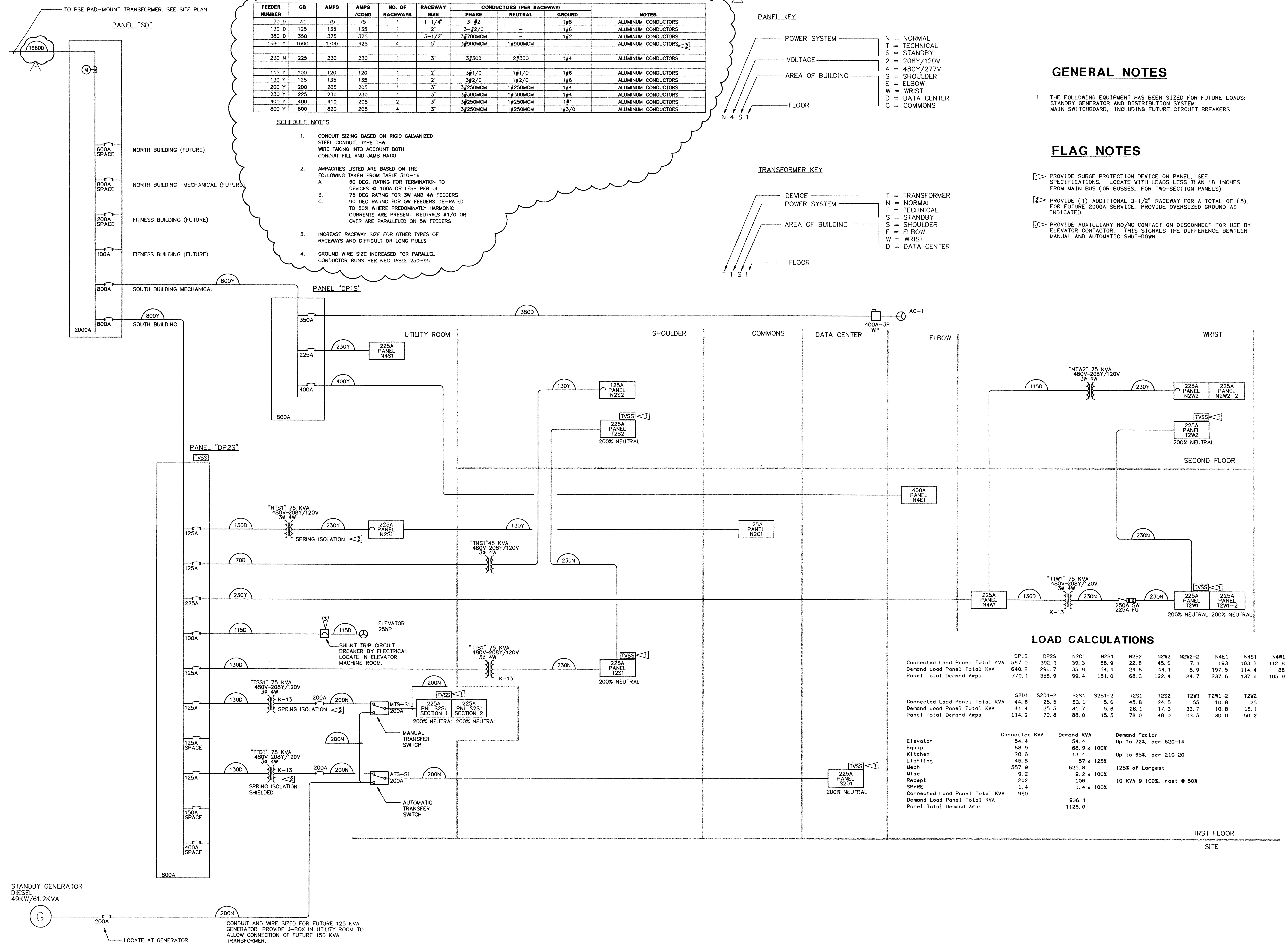

FEEDER SCHEDULE

FEEDER NUMBER	CB	AMPS	AMPS /COND	NO. OF RACEWAYS	RACEWAY SIZE	CONDUCTORS (PER RACEWAY) PHASE	NEUTRAL	GROUND	NOTES
70 D	70	75	75	1	1-1/4"	3-#2	–	1#8	ALUMINUM CONDUCTORS
130 D	125	135	135	1	2"	3-#2/0	–	1#6	ALUMINUM CONDUCTORS
380 D	350	375	375	1	3-1/2"	3#700MCM	–	1#2	ALUMINUM CONDUCTORS
1680 Y	1600	1700	425	4	5"	3#900MCM	1#900MCM		ALUMINUM CONDUCTORS 2
230 N	225	230	230	1	3"	3#300	2#300	1#4	ALUMINUM CONDUCTORS
115 Y	100	120	120	1	2"	3#1/0	1#1/0	1#6	ALUMINUM CONDUCTORS
130 Y	125	135	135	1	2"	3#2/0	1#2/0	1#6	ALUMINUM CONDUCTORS
200 Y	200	205	205	1	3"	3#250MCM	1#250MCM	1#4	ALUMINUM CONDUCTORS
230 Y	225	230	230	1	3"	3#300MCM	1#300MCM	1#4	ALUMINUM CONDUCTORS
400 Y	400	410	205	2	3"	3#250MCM	1#250MCM	1#1	ALUMINUM CONDUCTORS
800 Y	800	820	205	4	3"	3#250MCM	1#250MCM	1#3/0	ALUMINUM CONDUCTORS

SCHEDULE NOTES

1. CONDUIT SIZING BASED ON RIGID GALVANIZED STEEL CONDUIT, TYPE THW WIRE TAKING INTO ACCOUNT BOTH CONDUIT FILL AND JAMB RATIO
2. AMPACITIES LISTED ARE BASED ON THE FOLLOWING TAKEN FROM TABLE 310-16
   - A. 60 DEG. RATING FOR TERMINATION TO DEVICES @ 100A OR LESS PER UL.
   - B. 75 DEG RATING FOR 3W AND 4W FEEDERS
   - C. 90 DEG RATING FOR 5W FEEDERS DE-RATED TO 80% WHERE PREDOMINATLY HARMONIC CURRENTS ARE PRESENT. NEUTRALS #1/0 OR OVER ARE PARALLELED ON 5W FEEDERS
3. INCREASE RACEWAY SIZE FOR OTHER TYPES OF RACEWAYS AND DIFFICULT OR LONG PULLS
4. GROUND WIRE SIZE INCREASED FOR PARALLEL CONDUCTOR RUNS PER NEC TABLE 250-95

GENERAL NOTES

1. THE FOLLOWING EQUIPMENT HAS BEEN SIZED FOR FUTURE LOADS:
STANDBY GENERATOR AND DISTRIBUTION SYSTEM
MAIN SWITCHBOARD, INCLUDING FUTURE CIRCUIT BREAKERS

FLAG NOTES

1. PROVIDE SURGE PROTECTION DEVICE ON PANEL, SEE SPECIFICATIONS. LOCATE WITH LEADS LESS THAN 18 INCHES FROM MAIN BUS (OR BUSSES, FOR TWO-SECTION PANELS).
2. PROVIDE (1) ADDITIONAL 3-1/2" RACEWAY FOR A TOTAL OF (5), FOR FUTURE 2000A SERVICE. PROVIDE OVERSIZED GROUND AS INDICATED.
3. PROVIDE AUXILLIARY NO/NC CONTACT ON DISCONNECT FOR USE BY ELEVATOR CONTACTOR. THIS SIGNALS THE DIFFERENCE BEWTEEN MANUAL AND AUTOMATIC SHUT-DOWN.

LOAD CALCULATIONS

	DP1S	DP2S	N2C1	N2S1	N2S2	N2W2	N2W2-2	N4E1	N4S1	N4W1
Connected Load Panel Total KVA	567.9	392.1	39.3	58.9	22.8	45.6	7.1	193	103.2	112.8
Demand Load Panel Total KVA	640.2	296.7	35.8	54.4	24.6	44.1	8.9	197.5	114.4	88
Panel Total Demand Amps	770.1	356.9	99.4	151.0	68.3	122.4	24.7	237.6	137.6	105.9

	S2D1	S2D1-2	S2S1	S2S1-2	T2S1	T2S2	T2W1	T2W1-2	T2W2
Connected Load Panel Total KVA	44.6	25.5	53.1	5.6	45.8	24.5	55	10.8	25
Demand Load Panel Total KVA	41.4	25.5	31.7	5.6	28.1	17.3	33.7	10.8	18.1
Panel Total Demand Amps	114.9	70.8	88.0	15.5	78.0	48.0	93.5	30.0	50.2

	Connected KVA	Demand KVA	Demand Factor
Elevator	54.4	54.4	Up to 72%, per 620-14
Equip	68.9	68.9 x 100%	
Kitchen	20.6	13.4	Up to 65%, per 210-20
Lighting	45.6	57 x 125%	
Mech	557.9	625.8	125% of Largest
Misc	9.2	9.2 x 100%	
Recept	202	106	10 KVA @ 100%, rest @ 50%
SPARE	1.4	1.4 x 100%	
Connected Load Panel Total KVA	960		
Demand Load Panel Total KVA		936.1	
Panel Total Demand Amps		1126.0	

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SUN HEALTHCARE SYSTEMS, INC.
CAMPUS: PHASE ONE
ANACORTES, WASHINGTON

TRUE NORTH

NO.	DATE	REVISION
1	5/18/99	CONST. SET

DOUG BORS
PRINCIPAL IN CHARGE
BILL VAN VLACK, PE
PROJECT MANAGER
ED SANTOS
PROJECT DESIGNER
DRAWN
CHECK

W. WILLIAM VAN VLACK — STATE OF WASHINGTON — 22039 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12-17-2000

TITLE
POWER RISER DIAGRAM

98060
MITHUN PROJECT NO.
FEBRUARY 9, 1999
DATE
7651
SPARLING PROJECT NO.
NTS
SCALE

CONSTRUCTION SET E0.1
SHEET NUMBER

051899